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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/032,525	12/27/2001	James G. Radzelovage	032831-002	5244	
7590 12/03/2003			EXAMINER		
Michael G. Sa	•	NGUYEN, TUYEN T			
•	NE, SWECKER & MATH				
P.O. Box 1404			ART UNIT	PAPER NUMBER	
Alexandria, VA 22313-1404			2832		
		•	DATE MAILED: 12/02/200	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)				
		10/032,5	525	RADZELOVAGE, JAMES G.				
š .	Office Action Summary	Examine		Art Unit				
		TUYEN '	r nguyen	2832	AW			
Period fo	The MAILING DATE of this c mmunic	cation appears n th	e cover sheet with the c	rrespondence add	iress			
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuperiod for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply we reply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no endication. days, a reply within the stance with the stance will apply and will, by statute, cause the apply and will apply apply and will apply	vent, however, may a reply be time atutory minimum of thirty (30) days will expire SIX (6) MONTHS from plication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed	d on <u>17 September</u>	<u>2003</u> .					
2a) <u></u> ☐	This action is FINAL . 2b	o)⊠ This action is r	on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	4a) Of the above claim(s) <u>4-10</u> is/are value (s) is/are allowed. Claim(s) <u>1-3 and 12-21</u> is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restrict	d.						
Applicati	on Papers			•				
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including to The oath or declaration is objected to	a) accepted or b tion to the drawing(s) the correction is requi	be held in abeyance. See red if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF				
-	inder 35 U.S.C. §§ 119 and 120			7.0.0.0.7.0.7.7.7.7.	J 102.			
12) \(\tag{ } \) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\t	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of the certified copies of the priority of the certified copies of the certified copies of application from the Internation of the attached detailed Office action acknowledgment is made of a claim for the certified copies of the certified copies of the certified copies of application from the Internation of the Acknowledgment is made of a claim for the certified copies of the priority of the certified copies of the certif	locuments have be locuments have be if the priority documental Bureau (PCT Ruster a list of the ceres of domestic priority usin the first sentence guage provisional ar domestic priority usin the first sentence priority using the sentence of the sentence	en received. en received in Application ents have been receive ile 17.2(a)). tified copies not receive under 35 U.S.C. § 119(e) e of the specification or pplication has been received.	on No ed in this National S d. e) (to a provisional in an Application [eived. and/or 121 since a	application) Data Sheet.			
1) 🔀 Notic 2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449) Pa		4) Interview Summary 5) Notice of Informal Pa					

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DETAILED ACTION

Election/Restrictions

Claims 4-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 6.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the conductive trace on a printed circuit board must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-3 and 12-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noguchi et al. [JP 02-66910] in view of Kiesel et al. [US 4,623,865].

Noguchi et al. discloses a transformer [figure 1] comprising:

- a toroidal magnetic core having at least one winding [1] wound about the core thereby forming a wound core;
- additional single turn winding [2] of conductive material formed to at least partially enclose the wound core, wherein the single turn winding formed of two sheets of conductive metallic material.

Noguchi et al. discloses the instant claimed invention except for the addition winding formed of a single sheet of metallic material.

Kiesel et al. discloses a current transformer [figure 1] including a single turn winding formed of a single piece of conductive material [11].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a single piece one turn winding design of Kiesel et al. for the addition winding of Noguchi for the purpose of facilitating manufacturing.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the single turn winding from one single sheet of metallic material for the additional single turn winding of Noguchi et al. since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art. *Howard v. Detroit Stove Works*, 150 U.S. 164 (1893).

Regarding claims 2 and 18, Noguchi et al. discloses the addition winding provides substantially uniform distribution of current around the core annulus.

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Regarding claims 12 and 20, Noguchi et al. discloses the additional winding substantially encloses the core and the first winding.

Regarding claims 15 and 21, Noguchi et al. inherently discloses terminal portions [4, 4a] of the additional winding adapted to be connected to traces/pads of a printed circuit board to complete the winding structure.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shelly [US 4,536,733]; Shifrin [US 3,123,787] and Anderson, Jr. [US 2,709,791].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 703-308-0821. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 703-308-7619. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TTN 11N

Tayen Nguyen